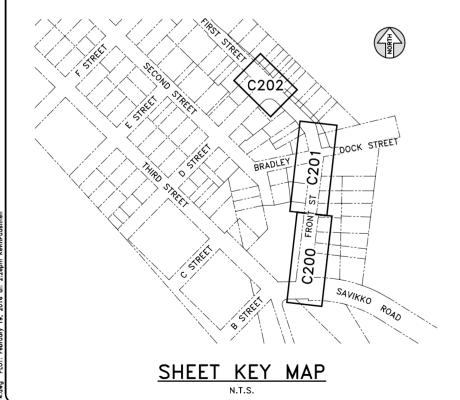
SHEET INDEX SHEET No **DESCRIPTION COVER SHEET** C001 C002 GENERAL NOTES, ABBREVIATIONS AND SYMBOLS C003 SURVEY CONTROL MAP C004 **SUMMARY TABLES** C100 TYPICAL SECTIONS C101 TYPICAL SECTIONS C102 CONSTRUCTION DETAILS PLAN VIEW C200 STA 10+00 to STA 12+80 PLAN VIEW C201 STA 12+80 to STA 16+00 PLAN VIEW C202 STA 17+05 to STA 18+50 **PROFILE VIEW** C300 STA 10+00 to STA 12+90 **PROFILE VIEW** C301 STA 12+90 to STA 16+00 **PAVEMENT LAYOUT & GRADING**

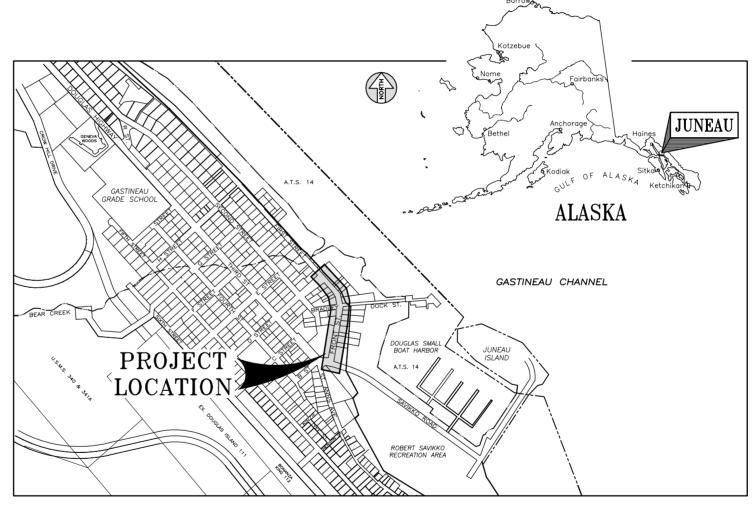
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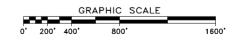
STA 10+00 to STA 15+85

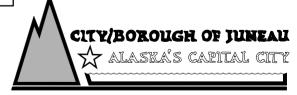
FRONT STREET DOUGLAS RECONSTRUCTION CBJ CONTRACT No. E16-133

CITY & BOROUGH OF JUNEAU, ALASKA



PROJECT LOCATION MAP





DEPARTMENT OF ENGINEERING

DESIGN JMP			
DRAWN KAP/JAG			
снеск			
APPROVED JMP			

BY APRVD.

No. DATE

COVER SHEET



R & M ENGINEERING

GEOLOGISTS

6205 GLACIER HIGHWAY JUNEAU, AK. 99801 SURVEYORS
Phone 907-780-6060
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FRONT STREET DOUGLAS
RECONSTRUCTION
CBJ CONTRACT No. E16-133

CDJ CONTRACT NO. LTO-133

DATE: FEB 19, 2016 R&M NO. 15138JN

CITY & BOROUGH OF JUNEAU, ALASKA

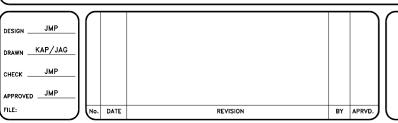
CO01

GENERAL CONSTRUCTION NOTES

- 1. CBJ ENGINEERING STANDARD DETAILS BOOK FOR CIVIL ENGINEERING PROJECTS AND SUBDIVISION IMPROVEMENTS DATED AUGUST, 2011 AND CBJ ENGINEERING STANDARD SPECIFICATIONS DATED DECEMBER, 2003 ARE MADE A PART OF THIS CONTRACT, WITH CURRENT REVISIONS AS APPLICABLE
- 2. LARGE BOULDERS, HARDPAN, STUMPS, LOGS, ORGANICS AND GROUND WATER MAY BE ENCOUNTERED AT VARIOUS DEPTHS DURING TRENCHING, DITCHING AND ROADWAY EXCAVATION OPERATIONS. THESE MATERIALS SHALL BE DISPOSED OF AS REQUIRED BY THE ENGINEER.
- 3. GRADES AND ALIGNMENTS SHOWN ON THESE PLANS ARE SUBJECT TO MINOR REVISIONS AS APPROVED BY THE ENGINEER
- 4. LOCATION OF WATER SYSTEM IMPROVEMENTS, SANITARY SEWER MANHOLES, STORM DRAIN CATCH BASINS, PIPING AND PIPE LENGTHS ARE SUBJECT TO MINOR REVISIONS AS APPROVED BY THE ENGINEER.
- 5. CONNECTIONS TO EXISTING SIDE STREETS AND DRIVEWAYS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 6. LOCATIONS OF EXISTING UNDERGROUND SEWER, WATER, TELEPHONE, CABLE TELEVISION, AND POWER UTILITIES SHOWN ON THESE PLANS WERE DERIVED FROM RECORD AS-BUILT DRAWINGS AND/OR FIELD LOCATES. ACTUAL LOCATIONS MAY VARY FROM THOSE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING, PROTECTING AND MAINTAINING THE UTILITIES THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. ANY DAMAGE RESULTING TO THESE UNDERGROUND UTILITIES DURING CONSTRUCTION SHALL BE PAID FOR BY THE CONTRACTOR AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. CALL "DIAL BEFORE YOU DIG" © 586-1333 FOR UNDERGROUND UTILITY LOCATES PRIOR TO ANY EXCAVATION ACTIVITIES.
- 7. CONTRACTOR SHALL ASSURE GARBAGE PICKUP, DAILY MAIL SERVICE, FUEL AND SERVICE DELIVERIES WILL BE UNINTERRUPTED TO ALL RESIDENTS AND BUSINESSES AFFECTED BY THIS PROJECT.
- 8. PROPERTY LINE LOCATIONS USED IN THESE PLANS WERE DERIVED FROM RECORD PLATS AND DO NOT REPRESENT A BOUNDARY SURVEY.
- 9. ALL SIGN INSTALLATIONS OR RELOCATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (M.U.T.C.D.) WITH THE ALASKA SUPPLEMENT.
- 10. THE CONTRACTOR SHALL DELIVER ALL ASPHALT PAVEMENT REMOVED FROM THIS PROJECT TO A STOCKPILE AREA IN THE CBJ LEMON CREEK PIT. CONTACT THE ENGINEER FOR THE EXACT LOCATION OF THE STOCKPILE AREA.
- 11. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF AT AN APPROVED DISPOSAL SITE, EXCEPT AS NOTED IN THE CONTRACT DOCUMENTS.
- 12. PROVIDE KNOCKOUTS IN CATCH BASINS FOR ALL PIPES SHOWN ON THE PLANS.
- 13. ONLY HORIZONTAL ELBOW FITTINGS (BENDS) ARE SHOWN ON THE PLANS. ADDITIONAL FITTINGS WILL BE REQUIRED FOR VERTICAL DEFLECTIONS NEAR CONNECTION TO EXISTING PIPES, AND AT OTHER LOCATIONS REQUIRING GRADE CHANGES TO AVOID CONFLICTS.
- 14. THE CONTRACTOR SHALL NOT STORE MATERIALS OR EQUIPMENT OR OPERATE EQUIPMENT WITH ITS TRACKS OR WHEELS PLACED ON PRIVATE PROPERTY WITHOUT THE WRITTEN APPROVAL OF THE PROPERTY OWNER.
- 15. THE CONTRACTOR SHALL NOTIFY CBJ WATER UTILITIES AT 780-6808 OF PROPOSED WATER SERVICE INTERRUPTION AND SUBMIT THE "WATER SYSTEM SPECIAL USE PERMIT" (COSIGNED BY THE ENGINEER) AT LEAST 48-HOURS PRIOR TO SHUTDOWN OR FLUSHING OF MAINLINE WATER PIPE. NO WATER SERVICE INTERRUPTION MAY PROCEED UNTIL THIS APPROVAL IS OBTAINED.
- 16. CONTRACTOR SHALL REFERENCE ALL EXISTING PROPERTY CORNER MONUMENTS (I.E. BRASS CAP MONUMENTS, REBARS OR CHISELED X'S) PRIOR TO CONSTRUCTION THAT WILL BE DISTURBED DURING HIS WORK, AND REMONUMENT AFTER CONSTRUCTION OPERATIONS. ALL WORK SHALL BE DONE BY, OR UNDER THE DIRECTION OF, AN ALASKA REGISTERED LAND SURVEYOR. ALL EXISTING PROPERTY CORNERS ARE NOT NECESSARILY SHOWN ON THE PLANS
- 17. THE PLAN DRAWINGS DO NOT NECESSARILY SHOW ALL TREES AND SHRUBS THAT MAY BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES. NO TREES, SHRUBS OR LANDSCAPING ARE TO BE REMOVED OR DAMAGED, UNLESS SHOWN ON THE DRAWINGS OR DIRECTED BY THE ENGINEER.
- 18. AEL&P, ACS AND GCI MAY CONDUCT WORK WITHIN THE PROJECT LIMITS TO RELOCATE UTILITIES AND TO UPGRADE THEIR RESPECTIVE SYSTEMS. THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH EACH UTILITY COMPANY AND PROVIDE ACCESS AS NECESSARY FOR UTILITY COMPANIES TO COMPLETE THEIR WORK.
- 19. "JUMPING JACK", OR SIMILAR TYPE COMPACTORS SHALL BE USED FOR COMPACTION WITHIN 18-INCHES OF THE OUTSIDE SURFACE OF ALL WATER VALVE BOXES AND MANHOLES WITHIN THE STREET LIMITS.
- 20. THE USE OF GROUT AND QUICKSET CEMENT PRODUCTS WITH ADJUSTING RINGS, BRICKS, WOOD, STONES AND OTHER SIMILAR GRADE ADJUSTMENT DEVICES TO SUPPORT CATCH BASIN FRAMES OVER CATCH BASINS AND MANHOLES WILL NOT BE PERMITTED ON THIS PROJECT. SEE CBJ STANDARD SPECIFICATIONS, SECTION 02502 STORM SEWER MANHOLES, INLETS AND CATCH BASINS AND THE DRAWINGS FOR CATCH BASIN FRAME SUPPORT REQUIREMENTS.
- 21. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ENGINEER APPROVED EROSION CONTROL DEVICES DURING CONSTRUCTION PER SECTION 01570 REQUIREMENTS.
- 22. TEMPORARY RAMPS SHALL BE PROVIDED AS REQUIRED FOR RESIDENT AND BUSINESS ACCESS TO THEIR DRIVEWAYS DURING THE CONSTRUCTION PERIOD.
- 23. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING WATER AND SEWER PIPES, INCLUDING ALL SERVICES ALONG THE STORM DRAIN AND WATER PIPE ALIGNMENTS TO DETERMINE PIPE INSULATION LOCATIONS AND TO ENSURE DAMAGE DOES NOT OCCUR TO THE SERVICE PIPES.
- 24. WATER PIPES WILL REQUIRE MORE THAN 60-INCHES OF COVER IN AREAS WHERE STORM DRAINAGE PIPES ARE CLOSE TO OR BELOW A DEPTH OF 60-INCHES TO INVERT. DEPTHS OF ALL STORM DRAINAGE PIPES SHALL BE DETERMINED PRIOR TO INSTALLING WATER PIPES TO ENSURE CONFLICTS BETWEEN THESE PIPES DO NOT OCCUR. A MINIMUM CLEARANCE OF 8-INCHES SHALL BE OBTAINED BETWEEN WATER AND OTHER PIPES.
- 25. THE CONTRACTOR SHALL NOTIFY EACH RESIDENT AND BUSINESS OF EACH DRIVEWAY CLOSURE THE DAY PRECEDING THE CLOSURE. THE RESIDENT OR BUSINESS SHALL BE INFORMED OF THE PERIOD OF TIME THE CLOSURE WILL BE IN EFFECT. NO DRIVEWAY CLOSURES WILL BE PERMITTED UNTIL THIS REQUIREMENT HAS BEEN MET TO THE SATISFACTION OF THE ENGINEER.
- 26. TANNER'S SERVICE CENTER IS LOCATED WITHIN THE PROJECT LIMITS; THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE OWNER ON ALLOWING TRUCK AND BOAT TRAILER ACCESS TO THE SERVICE CENTER DURING BUSINESS HOURS. TANNER'S SERVICE CENTER SUMMER HOURS (APRIL 1 THROUGH SEPTEMBER 30) ARE TUESDAY FRIDAY 9:00 AM TO 6:00 PM, SATURDAY 9:30 AM TO 3:00 PM, CLOSED SUNDAY AND MONDAY.

ABBREVIATIONS

	ARRKE AIR LION 2		SIMBOLS	
AC ACS AEL&P	ASBESTOS CEMENT ALASKA COMMUNICATIONS SYSTEMS ALASKA ELECTRIC LIGHT & POWER	EXISTING	PROPOSED	PROPERTY / BOUNDARY LINE
APPROX AST	APPROXIMATE ABOVEGROUND STORAGE TANK			UTILITY EASEMENT LINE PROJECT BASELINE
BC BOP	BACK OF CURB BEGINNING OF PROJECT	B		TEMPORARY BENCH MARK
CBJ	CATCH BASIN CITY & BOROUGH OF JUNEAU CHORD BEADING		(1)	TEMPORART BENCH MARK
CHB	CHORD BEARING CHORD LENGTH	(0)	(SSMH-1)	SANITARY SEWER MANHOLE
C/L CIP CLR	CENTERLINE CAST IRON PIPE CLEAR	_ (_ (_	SP-2) ← ○	SANITARY SEWER LINE / SERVICE
CMP	CORRUGATED METAL PIPE CONCRETE MASONRY UNIT		— —	SANITART SEWER LINE / SERVICE
CONC CONT CPP	CONCRETE CONTINUOUS CORRUGATED POLYETHYLENE PIPE		P-2	STORM DRAIN PIPE
CTE DI	CONNECT TO EXISTING DUCTILE IRON	CB4	S-1) 👼	STORM DRAIN CATCH BASIN
DIP DIA	DUCTILE IRON PIPE DIAMETER			
E EG	EASTING EXISTING GRADE			STORM DRAIN MANHOLE
EJIW EL	EAST JORDAN IRON WORKS ELEVATION			CURB & GUTTER, TYPE I
EOP EP	END OF PROJECT EDGE OF PAVEMENT			• • • • •
EXIST	EXISTING EXPANSION ENUMBER OF A DE			VALLEY GUTTER, TYPE III
FG FH FL	FINISH GRADE FIRE HYDRANT FLOW LINE			ASPHALT SURFACE
GCI GV HDPE	GENERAL COMMUNICATION INC. GATE VALVE HIGH DENSITY POLYETHYLENE	4 4 4		CONCRETE SURFACE
HP IE	HIGH POINT INVERT ELEVATION			SAWCUT AND MTE
L LP	LENGTH LOW POINT			WATER LINE
LT MAX	LEFT MAXIMUM	, N	×	WATER VALVE BOX
MIN MJ	MINIMUM MECHANICAL JOINT		\sim	WATER VALVE BOX
MTE N	MATCH TO EXISTING NORTHING			FIRE HYDRANT
N/A NFS	NOT APPLICABLE NON-FROST SUSCEPTIBLE	- - >		LIGHT POLE
NTS NVC	NOT TO SCALE NO VERTICAL CURVE	— UGE — UGE —		ELECTRIC LINE UNDERGROUND
OC PC	ON CENTER POINT OF CURVATURE	—— — — — — — — — — — — — — — — — — — —		OVERHEAD UTILITY LINE
PERF PI	PERFORATED POINT OF INTERSECTION	\square		ELECTRIC TRANSFORMER
P/L POC	PROPERTY LINE POINT ON CURVE			
POL PP	POINT ON LINE POWER POLE	p _		TELEPHONE LINE UNDERGROUND
PRC PT	POINT OF REVERSE CURVATURE POINT OF TANGENCY	— c —		CABLE TV LINE UNDERGROUND
PVC R	POLYVINYL CHLORIDE RADIUS	F0		FIBER OPTIC LINE UNDERGROUND
RAP ROW	RECYCLED ASPHALT PAVEMENT RIGHT-OF-WAY			TOP OF BANK
RP RT SDMH	RADIUS POINT RIGHT STORM DRAIN MANHOLE			TOE OF SLOPE
SS SSC0	SANITARY SEWER SANITARY SEWER CLEANOUT	$\boxtimes \longrightarrow \triangleright$		MAILBOX
SSMH STA	SANITARY SEWER MANHOLE STATION			SIGN
STD SWPPP	STANDARD STORM WATER POLLUTION PREVENTION PLAN			WOOD FENCE
T TBM	TANGENT TEMPORARY BENCH MARK	_ x_ x_ x_		CHAIN LINK FENCE
TBC TC	TOP BACK OF CURB TOP OF CONCRETE			UNDERDRAIN
TOB TOP	TOP OF BANK TOP OF PIPE TYPICAL	35 —		
TYP UD	TYPICAL UNDERDRAIN	¿ M	wu	WALL DRAIN
UNO UST	UNLESS NOTED OTHERWISE UNDERGROUND STORAGE TANK VERTICAL CURVE	£.)		DECIDUOUS TREE
VC VERT	VERTICAL CURVE VERTICAL	V		



GENERAL NOTES, ABBREVIATIONS AND SYMBOLS



VPT



ENGINEERS GEOLOGISTS
6205 CLACIER HICHWAY

6205 GLACIER HIGHWAY JUNEAU, AK. 99801

VERTICAL POINT OF CURVATURE

VERTICAL POINT OF TANGENCY

VERTICAL POINT OF INTERSECTION

TS SURVEYORS
Phone 907-780-6060
Fax 907-780-4611
rmengineering@rmjuneau.com

FRONT STREET DOUGLAS RECONSTRUCTION

STRUCTURE

SYMBOLS

CBJ CONTRACT No. E16-133

CITY & BOROUGH OF JUNEAU, ALASKA

DATE: __FEB 19, 2016 R&M NO. __15138JN

SHEET COO2

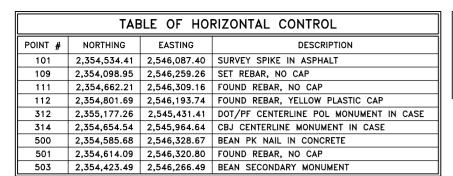


TABLE OF VERTICAL CONTROL					
ТВМ	TBM NORTHING EASTING ELEVATION DESCRIPTION				
PP	2,354,799	2,545,792	61.66'	YELLOW SPIKE IN POWER POLE	
FH-1	2,354,600	2,546,273	29.54'	E. BOLT TOP FLANGE OF FIRE HYDRANT	
FH-2	2,354,099	2,546,243	36.65	N. BOLT TOP FLANGE OF FIRE HYDRANT	

NOTE: CONTRACTOR SHALL PERFORM A CLOSED LEVEL LOOP THROUGH TBM'S AS LISTED TO VERIFY ELEVATIONS PRIOR TO BEGINNING ANY GRADING WORK.

BASELINE CURVE SUMMARY					
CURVE DELTA RADIUS TANGENT LENGTH CHORD					
A	19°38'02"	100.00'	17.30'	34.27	N3°21'49"W-34.10'
B	32*16'28"	110.00'	31.83'	61.96'	N29°19'04"W-61.15'

GENERAL SURVEY NOTES

- THE BASIS OF HORIZONTAL CONTROL UTILIZED TO CONDUCT THIS SURVEY WAS THE LINE-OF-SIGHT BETWEEN A CENTERLINE POL (POINT ON LINE) MONUMENT NEAR THE INTERSECTION OF SECOND AND "G" STREET AND THE CENTERLINE INTERSECTION MONUMENT AT SECOND AND "D" STREET HAVING A MEASURED BEARING OF \$45°34'15"E.
- 2. THE BASIS OF VERTICAL CONTROL FOR THIS SURVEY WAS THE TBM (TEMPORARY BENCH MARK) EMPLOYED DURING THE 1985 CBJ SECOND STREET CONSTRUCTION IMPROVEMENT PROJECT BEING THE WESTERLY BOLT OF THE TOP FLANGE OF A FIRE HYDRANT AT THE INTERSECTION OF FIRST STREET AND DOUGLAS HIGHWAY. THIS POINT IS KNOWN AS "CBJ TBM #112" AND HAS THEN A REPORTED ELEVATION OF 101.05' MLLW.
- 3. DATE OF THIS SURVEY WAS OCTOBER 6th THROUGH OCTOBER 27th, 2015.
- 4. CONTRACTOR SHALL VERIFY ALL PROJECT CONTROL PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.

SURVEY CONTROL SYMBOLS

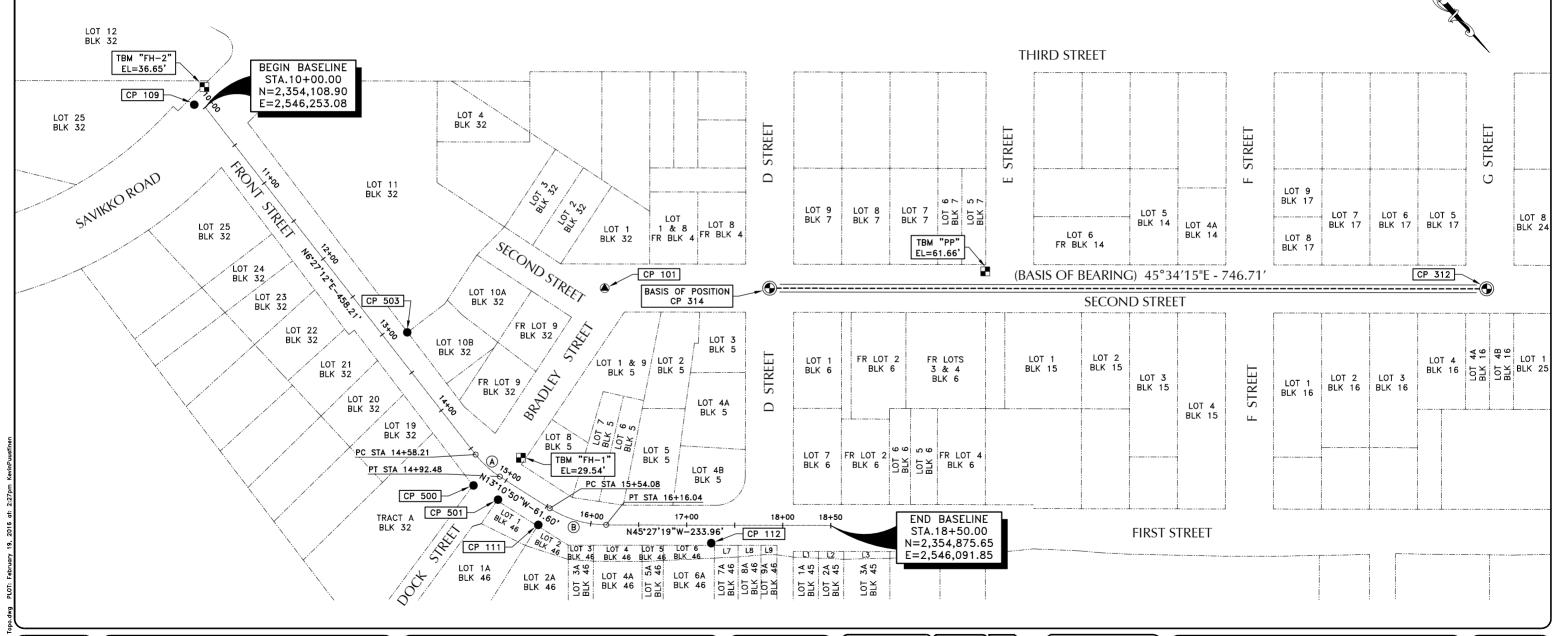
CENTERLINE MONUMENT (RECOVERED)

PRIMARY MONUMENT (RECOVERED)

SECONDARY MONUMENT (RECOVERED)

1" DIAMETER SURVEY SPIKE

TEMPORARY BENCH MARK (T.B.M.)



KAP/JAG PPROVED __JMP No. DATE REVISION BY APRVE

SURVEY CONTROL MAP

GRAPHIC SCALE 0' 25' 50' 100'



R & M ENGINEERING **ENGINEERS**

GEOLOGISTS

6205 GLACIER HIGHWAY IUNEAU, AK. 99801

SURVEYORS Phone 907-780-6060 Fax 907-780-4611 rmengineering@rmjuneau.com

FRONT STREET DOUGLAS **RECONSTRUCTION**

CBJ CONTRACT No. E16-133 CITY & BOROUGH OF JUNEAU, ALASKA

SHEET C003

DATE: FEB 19, 2016

SIGN ASSEMBLY TABLE MUTCD DESIGNATION SIGN No LOCATION LEGEND AND REMARKS (1) 10+44.6, 14.0 LT R1-1 "STOP" (30"x30") & REUSE STREET NAME SIGNS (2) 11+12.4, 17.1 RT R2-1 & R7-1 "SPEED LIMIT 20" (24"x30") & "NO PARKING THIS SIDE OF STREET" (12"x18") (3) 12+18.0, 13.2 LT R7P-101R "NO PARKING ANY TIME" W/ ARROW RIGHT (12"x18") (4) 12+73.0, 13.2 LT R7P-101L "NO PARKING ANY TIME" W/ ARROW LEFT (12"x18") (5) "NO PARKING ANY TIME" W/ ARROW RIGHT (12"x18") 13+13.3, 13.2 LT R7P-101R (6) "NO PARKING ANY TIME" W/ ARROW LEFT (12"x18") 13+84.0, 13.2 LT R7P-101L $\overline{(7)}$ 14+50.2, 26.7 LT R1-1 "STOP" (30"x30") & REUSE STREET NAME SIGNS (8) "STOP" (30"x30") & REUSE STREET NAME SIGNS 14+99.4, 26.0 RT R1-1 9 "NO PARKING ANY TIME" W/ ARROW LEFT (12"x18") 15+69.0, 14.0 RT R7P-101L

- 1. ALL SIGNS TO BE CONSTRUCTED IN ACCORDANCE WITH CBJ STANDARD DETAIL 127A.
- 2. ALL SIGNS SHALL BE HIGH INTENSITY AND LOCATED AS DIRECTED BY THE ENGINEER.
- 3. SALVAGE ALL EXISTING SIGN PANELS THAT ARE NOT BEING REUSED AND DELIVER TO CBJ STREET MAINTENANCE SHOP AT 7 MILE GLACIER HIGHWAY. DISPOSE OF ALL EXISTING POSTS, POST SOCKETS AND FOUNDATION MATERIALS.
- 4. REPLACE ALL LOWER BRACKETS FOR STREET IDENTIFICATION PANELS. BRACKET BETWEEN PANELS MAY BE REUSED.
- 5. ALL POSTS SHALL BE "TELSPAR", OR APPROVED EQUAL.
- 6. TELSPAR POSTS SHALL BE PRE-PUNCHED WITH ALL KNOCKOUTS REMOVED.
- 7. SALVAGE AND REINSTALL EXISTING STREET NAME SIGNS ABOVE NEW STOP SIGNS PER ABOVE TABLE.

NEW MAILBOX SUMMARY				
STREET ADDRESS	MAILBOX LOCATION	REMARKS		
903 FIRST STREET	15+69.0, 13.0 LT	SINGLE MAILBOX		
NOTES:				

- MAILBOX STATION & OFFSETS ARE GIVEN TO THE FRONT CENTER OF THE MAILBOX RECEPTACLE. CONTRACTOR SHALL STAKE MAILBOX LOCATION FOR APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION.
- MAIL DELIVERY SERVICE SHALL NOT BE INTERRUPTED AND ACCESS TO EACH MAILBOX RECEPTACLE SHALL BE AVAILABLE TO THE UNITED STATES POSTAL SERVICE AND THE RESIDENTS AT ALL TIMES.

STORM DRAIN STRUCTURE FRAME & GRATE SUMMARY

STRUCTURE No.	EAST JORDAN IRON WORKS, OLYMPIC FOUNDRY INC., NEENAH FOUNDRY, CBJ STANDARD No., OR APPROVED EQUAL.
S-1	OLYMPIC FOUNDRY SM18DI
S-2	OLYMPIC FOUNDRY SM18DI
S-3	OLYMPIC FOUNDRY SM18DI
S-4	OLYMPIC FOUNDRY MH34SCDI
S-5	OLYMPIC FOUNDRY SM18DI
S-6	OLYMPIC FOUNDRY SM18DI
S-7	OLYMPIC FOUNDRY SM18DI
S-8	OLYMPIC FOUNDRY SM18DI
S-9	OLYMPIC FOUNDRY SM18DI
S-10	EJIW 7700 WITH M1 GRATE
S-11	EJIW 7700 WITH M1 GRATE
CB4	OLYMPIC FOUNDRY SM18DI

1. CATCH BASIN TOP SLAB OPENINGS SHALL BE DIMENSIONED TO FIT THE FRAME DIMENSIONS. ALL GRATES SHALL BE HEAVY DUTY CONSTRUCTION AND BICYCLE SAFE. ALL FRAMES AND GRATES TO BE DUCTHE IRON.

SEWER & STORM STRUCTURE REMOVAL SUMMARY

LOCATION	REMARKS
10+16.3, 6.8 LT	REMOVE SSMH (M14)
10+42.8, 31.4 RT	REMOVE SSMH (M14.1)
11+16.1, 12.8 RT	REMOVE SSMH (M13)
13+17.7, 14.3 LT	REMOVE SDMH W/ CONC AREA DRAIN (CB1)
14+11.5, 14.6 LT	REMOVE CATCH BASIN (CB2)
14+12.2, 16.4 RT	REMOVE STORM DRAIN MANHOLE (CB3)
14+74.0, 0.6 RT	REMOVE SSMH (N15)
14+75.2, 9.4 RT	REMOVE SSMH (N14)
14+93.6, 10.2 RT	REMOVE SSMH (M15.1)
15+30.0, 20.0 LT	REMOVE CATCH BASIN (CB5)
15+33.0, 16.0 RT	REMOVE CATCH BASIN (CB6)
15+65.5, 2.5 RT	REMOVE SSMH (N15.1)
15+74.2, 5.6 RT	REMOVE SSMH (N15.3)
15+77.0, 13.2 RT	REMOVE SSMH (DIV1)
15+81.1, 0.5 LT	REMOVE SSMH (N15.2)
17+37.2, 14.5 LT	REMOVE CATCH BASIN
17+99.2, 14.7 LT	REMOVE CATCH BASIN

WATER SERVICE SUMMARY

****	OLIVIOL	<u> </u>	/ \
STREET ADDRESS	STATION & OFFSET	SIZE/TYPE	REMARKS
802 FRONT STREET	11+24.1, 24.8 RT	2" CU	SEE NOTES 1, 2 & 4
LOT 24 FRONT STREET	11+73.0, 25.3 RT	1" CU	SEE NOTES 1 & 3
LOT 23 FRONT STREET	12+03.6, 25.6 RT	1" CU	SEE NOTES 1 & 3
808 FRONT STREET	12+24.7, 25.8 RT	1" CU	SEE NOTE 2
814 FRONT STREET	13+00.0, 19.2 RT	1" CU	SEE NOTES 1, 2 & 4
825 FRONT STREET	13+34.0, 21.1 LT	1" CU	SEE NOTES 1, 2 & 4
827 FRONT STREET	13+65.7, 20.8 LT	1" CU	SEE NOTES 1, 2 & 4
816 FRONT STREET	13+59.6, 19.8 RT	1" CU	SEE NOTES 1, 2 & 4
820 FRONT STREET	14+04.2, 19.8 RT	1" CU	SEE NOTES 1, 2 & 4
103 BRADLEY STREET	14+15.7, 21.1 LT	1" CU	SEE NOTES 1, 2 & 4
824 FRONT STREET	14+54.8, 20.8 RT	6" HDPE	SEE NOTES 1 & 3
903 FIRST STREET	15+06.1, 21.6 LT	1" CU	SEE NOTES 1, 2 & 4
106 DOCK STREET	15+43.8, 21.3 RT	1" CU	SEE NOTES 1, 2 & 4
NOTES:			

- NOTES:

 1. STATION & OFFSET ARE GIVEN TO CENTER OF CURB VALVE BOX.
- 2. INSTALL NEW WATER SERVICE AND CURB BOX PER CBJ STANDARD DETAIL, CTE WATER SERVICE (NEW CURB BOX NOT REQUIRED AT 808 FRONT STREET).
- 3. INSTALL NEW WATER SERVICE AND CURB BOX PER CBJ STANDARD DETAIL, NO CTE
- 4. PROVIDE ALL ADAPTERS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS AND DEPTHS.

SEWER SERVICE SUMMARY

STREET ADDRESS	STATION & OFFSET	SIZE/TYPE	REMARKS
750 ST ANN'S AVENUE	9+93.7, 22.6 RT	6" PVC	SEE NOTES 1-3
N/A	10+47.8, 43.2 RT	6" PVC	SEE NOTE 2
802 FRONT STREET	11+13.8, 24.7 RT	6" PVC	SEE NOTES 1-3
802 THIRD STREET	11+53.8, 22.1 LT	10" PVC	SEE NOTES 1 & 3
LOT 24 FRONT STREET	11+77.0, 25.3 RT	6" PVC	SEE NOTE 2
LOT 23 FRONT STREET	12+09.6, 25.6 RT	6" PVC	SEE NOTE 2
808 FRONT STREET	12+21.1, 14.5 RT	6" PVC	SEE NOTES 1-3
814 FRONT STREET	12+98.0, 19.2 RT	6" PVC	SEE NOTES 1-3
825 FRONT STREET	13+40.4, 17.1 LT	6" PVC	SEE NOTES 1-3
816 FRONT STREET	13+57.0,19.8 RT	6" PVC	SEE NOTES 1-3
827 FRONT STREET	13+67.2, 20.4 LT	6" PVC	SEE NOTES 1-3
820 FRONT STREET	14+03.7, 19.8 RT	6" PVC	SEE NOTES 1-3
103 BRADLEY STREET	14+17.6, 21.4 LT	6" PVC	SEE NOTES 1-3
824 FRONT STREET	14+59.8, 20.8 RT	6" PVC	SEE NOTE 2
903 FIRST STREET	15+07.7, 21.6 LT	6" PVC	SEE NOTES 1-3
LOT 1 DOCK STREET	15+29.8, 21.4 RT	6" PVC	SEE NOTES 1-3
106 DOCK STREET	15+38.1, 21.4 RT	6" PVC	SEE NOTES 1-3
I			

- 1. SEWER SERVICE LOCATIONS SHOWN ARE FROM LIMITED AS—BUILT INFORMATION AND WERE NOT FIELD LOCATED. CONTRACTOR SHALL FIELD LOCATE ALL SEWER SERVICES TO CONFIRM FINAL LOCATION FOR NEW SEWER SERVICE CLEANOUT INSTALLATION.
- 2. CONSTRUCT NEW 6" PVC SEWER SERVICE AND INSTALL NEW CLEANOUT NEAR PROPERTY LINE PER CBJ STANDARD DETAIL 213, CTE.
- 3. PROVIDE ALL ADAPTERS, ELBOWS AND OTHER FITTINGS NECESSARY TO CONNECT TO DISSIMILAR PIPE SIZES, MATERIALS AND DEPTHS.

KAP/JAG No. DATE REVISION BY APRVD

SUMMARY TABLES





ENGINEERS

IUNEAU, AK. 99801

GEOLOGISTS

6205 GLACIER HIGHWAY

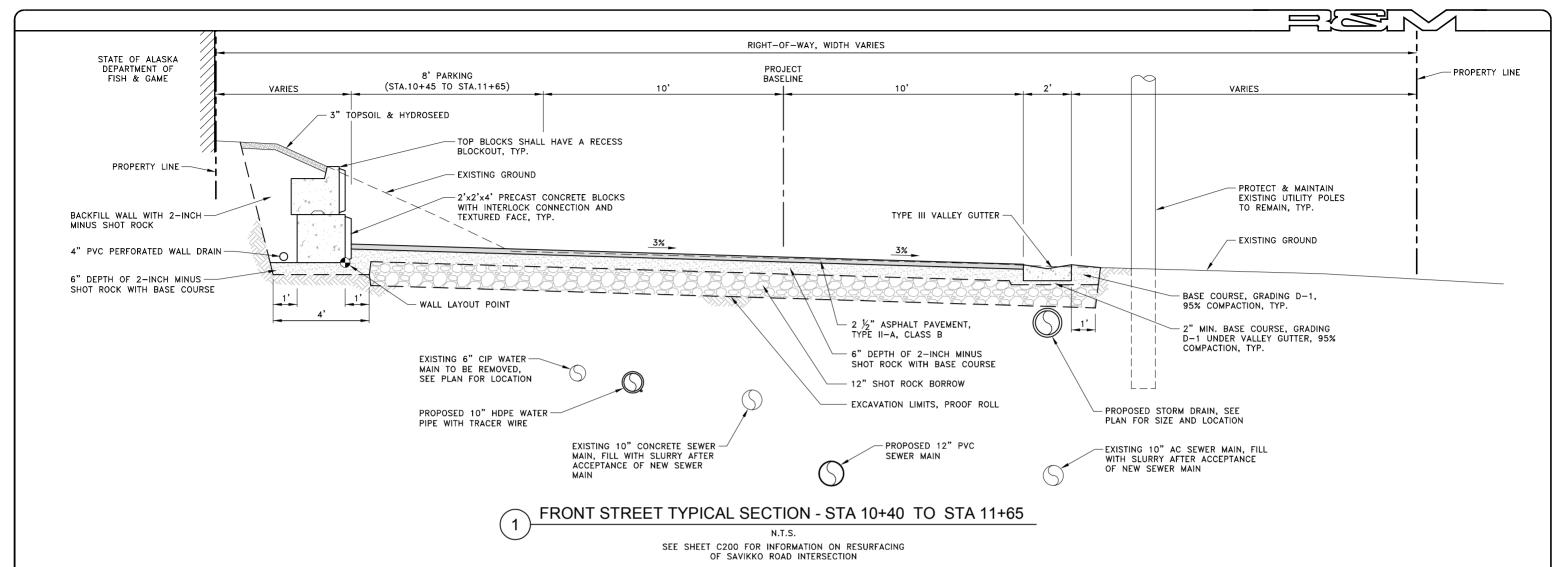
Phone 907-780-6060 Fax 907-780-4611 rmengineering@rmjuneau.com

SURVEYORS

FRONT STREET DOUGLAS **RECONSTRUCTION**

CBJ CONTRACT No. E16-133 CITY & BOROUGH OF IUNEAU, ALASKA

DATE: FEB 19, 2016



TYPICAL SECTION NOTES

- INFORMATION
- 2. UNDERGROUND SEWER, WATER AND STORM SEWER SERVICES NOT SHOWN FOR CLARITY. SEE PLAN VIEW SHEETS FOR APPROXIMATE LOCATIONS
- ADDITIONAL EXCAVATION BELOW THE NEATLINE SUBCUT LEVEL MAY BE REQUIRED BY THE ENGINEER IF ORGANIC OR OTHER UNSUITABLE MATERIALS ARE FOUND AT OR NEAR THE PLANNED SUBCUT LEVEL. USABLE MATERIAL FROM EXCAVATION SHALL BE USED TO BACKFILL THE ADDITIONAL AREAS OF EXCAVATION BACKFILLING WITH USABLE MATERIAL FROM EXCAVATION WILL BE CONSIDERED INCIDENTAL TO OTHER WORK.
- REMOVE AND DISPOSE OF EXISTING STORM DRAIN, SANITARY SEWER, AND WATER PIPES THAT ARE BEING REPLACED, UNLESS NOTED OTHERWISE.
- DRIVEWAYS DISTURBED DURING CONSTRUCTION SHALL BE RECONSTRUCTED TO EQUAL OR BETTER CONDITION WITH SUBGRADE REPLACED IN LAYERS TO MATCH THOSE REMOVED, EXCEPT:
 - EXISTING ASPHALT PAVED DRIVEWAYS DISTURBED DURING CONSTRUCTION SHALL BE SUBCUT TO 8-INCHES BELOW FINISH GRADE AND REPLACED WITH 6-INCHES OF 2" MINUS SHOT ROCK W/ BASE COURSE, GRADING D-1 AND 2-INCHES OF ASPHALT PAVEMENT, TYPE II-A, CLASS B.
 - CONCRETE DRIVEWAYS SHALL BE SUBCUT TO 12-INCHES BELOW FINISH GRADE AND REPLACED WITH 6-INCHES OF 2" MINUS SHOT ROCK W/ BASE COURSE, GRADING D-1 AND 6-INCHES OF CONCRETE.
 - EXISTING GRAVEL DRIVEWAYS DISTURBED DURING CONSTRUCTION SHALL BE SUBCUT TO 4-INCHES BELOW FINISH GRADE AND REPLACED WITH 4-INCHES OF BASE COURSE, GRADING D-1.
 - ORGANICS, ROOTS, WOOD OR OTHER DELETERIOUS MATERIALS ENCOUNTERED IN THE DRIVEWAYS DURING EXCAVATION OPERATIONS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AND DISPOSED OF AT AN APPROVED OFFSITE DISPOSAL SITE. BACKFILL VOIDS BELOW THE REQUIRED SUBCUT LAYER WITH USABLE EXCAVATION.

- SIDE SLOPES, WIDTHS AND GRADES MAY VARY AT SOME LOCATIONS, SEE PLAN VIEW SHEETS FOR ADDITIONAL 6. THE BASE COURSE LAYER SHALL BE 4" TO 5" OF 2-INCH MINUS SHOT ROCK WITH 1" TO 2" TOP LAYER OF BASE COURSE, GRADING D-1 FOR A TOTAL COMPACTED THICKNESS OF 6". THE 2-INCH MINUS SHOT ROCK SHALL BE WELL COMPACTED PRIOR TO PLACING BASE COURSE, GRADING D-1. THIS APPLIES TO ALL TYPICAL SECTIONS FOR THIS PROJECT.
 - 7. CONSTRUCT HYDRANT ACCESS PAD AND SEWER APRON AS FOLLOWS:
 - A. EXCAVATE TO 8" BELOW FINISH GRADE TO CONSTRUCTION LIMITS.
 - B. PLACE A 6" DEPTH OF 2-INCH MINUS SHOT ROCK WITH BASE COURSE TO SHOULDER LIMITS.
 - C. SURFACE WITH A 2" LAYER OF ASPHALT PAVEMENT.
 - 8. ASPHALT APRONS FOR GRAVEL DRIVEWAYS SHALL BE PAVED SIMULTANFOLISLY WITH THE ROADWAY PAVING
 - 9. TOP OF PAVEMENT GRADES GIVEN ON THE PLANS ARE ACTUAL FINISHED PAVEMENT SURFACE ELEVATIONS. TOP OF A.C. PAVEMENT ALONG NEW CONCRETE GUTTERS SHALL BE FINISHED 1/4-INCH ABOVE THE LIP OF
 - 10. THE LIMITS OF USABLE MATERIAL AND TOPSOIL OUTSIDE THE STRUCTURAL SECTION WILL VARY IN DISTANCE FROM RIGHT-OF-WAY LINES. PLACE AND GRADE THESE MATERIALS TO PROVIDE A SMOOTH, WELL-DRAINED TRANSITION TO EXISTING GRADES, AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL NOTES

- 1. TRAFFIC CONTROL SHALL MEET THE REQUIREMENTS OF THE ALASKA TRAFFIC MANUAL (U.S. DEPARTMENT OF TRANSPORTATION "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" WITH THE ALASKA SUPPLEMENT).
- 2. ALL DETOURS AND ROAD CLOSURES SHALL BE AS APPROVED BY THE ENGINEER.
- 3. PROVIDE ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES.
- 4. TANNER'S SERVICE CENTER IS LOCATED WITHIN THE PROJECT LIMITS: THE CONTRACTOR IS REQUIRED TO COORDINATE WITH THE OWNER ON ALLOWING TRUCK AND BOAT TRAILER ACCESS TO THE SERVICE CENTER DURING BUSINESS HOURS. TANNER'S SERVICE CENTER SUMMER HOURS (APRIL 1 THROUGH SEPTEMBER 30) ARE TUESDAY - FRIDAY 9:00 AM TO 6:00 PM, SATURDAY 9:30 AM TO 3:00 PM, CLOSED SUNDAY AND MONDAY.
- 5. PEDESTRIAN TRAFFIC SHALL BE MAINTAINED ALONG AT LEAST ONE SIDE OF THE STREET AT ALL TIMES. THE PEDESTRIAN PATHWAY SHALL BE CLEARLY MARKED AND SHALL SATISFY THE REQUIREMENTS AS DESCRIBED IN THE SPECIAL PROVISIONS.

PAVING SEQUENCE REQUIREMENTS

- 1. LAYDOWN OPERATIONS SHALL BE CONDUCTED IN A MANNER THAT ENSURES THE MINIMUM TEMPERATURE ALONG THE CENTERLINE EDGE OF THE FIRST PAVED LANE DOES NOT FALL BELOW 200° FAHRENHEIT BEFORE THE SECOND PAVED LANE IS PLACED AGAINST THIS EDGE
- 2. THE CONTRACTOR SHALL MONITOR THE TEMPERATURE OF THE CENTERLINE EDGE OF THE FIRST PAVED LANE AND MOVE THE LAYDOWN OPERATIONS OVER TO THE SECOND LANE ALLOWING SUFFICIENT TIME FOR THE PAVEMENT OF THE SECOND LANE TO COVER THE CENTERLINE EDGE OF THE FIRST LANE PRIOR TO COOLING TO LESS THAN 200° FAHRENHEIT.

KAP/JAG JMP CHECK PPROVED __JMP No. DATE REVISION BY APRVE

TYPICAL SECTIONS



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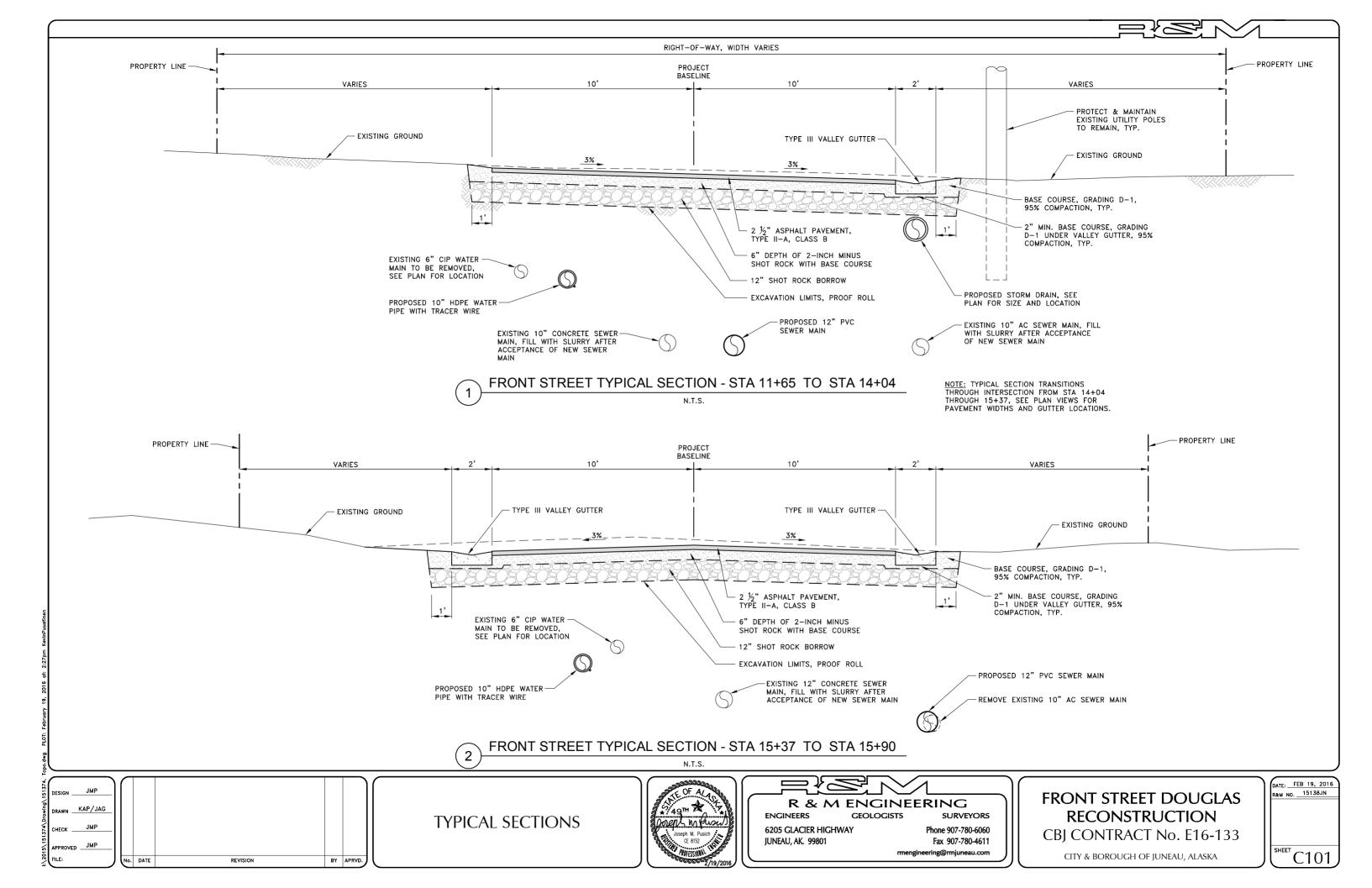
FRONT STREET DOUGLAS RECONSTRUCTION

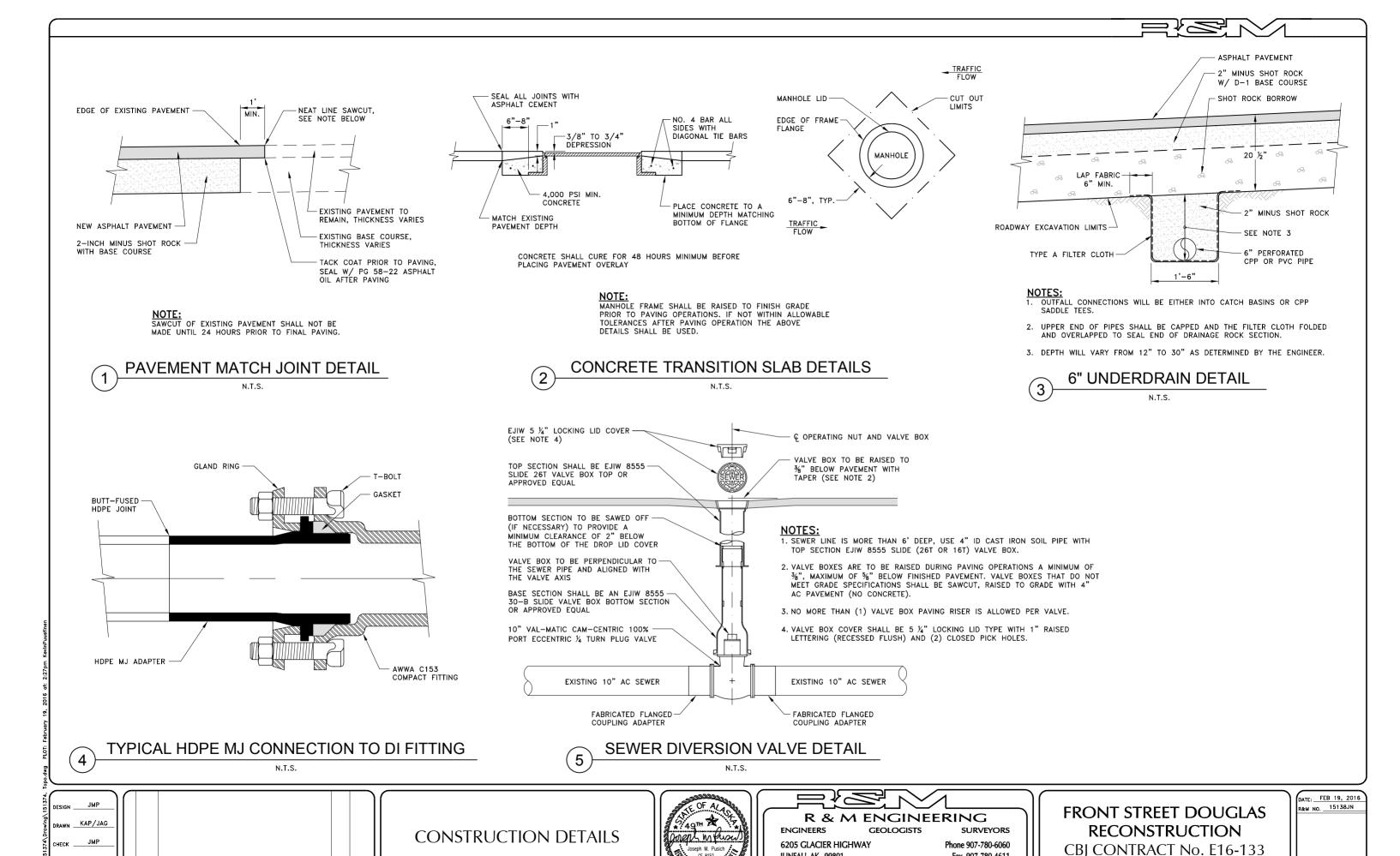
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CITY & BOROUGH OF IUNEAU, ALASKA

DATE: FEB 19, 2016 R&M NO. ___15138JN

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No. DATE

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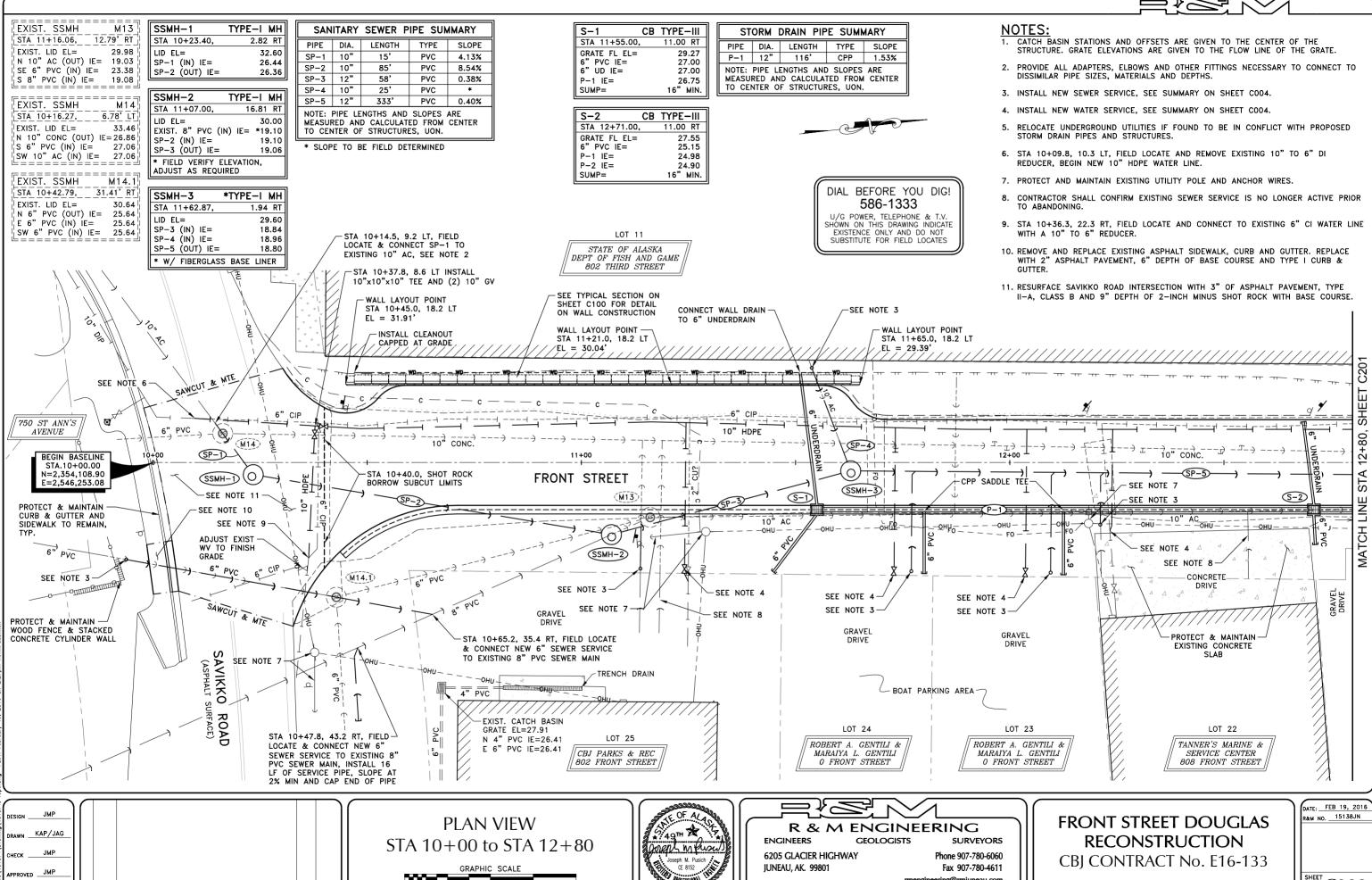
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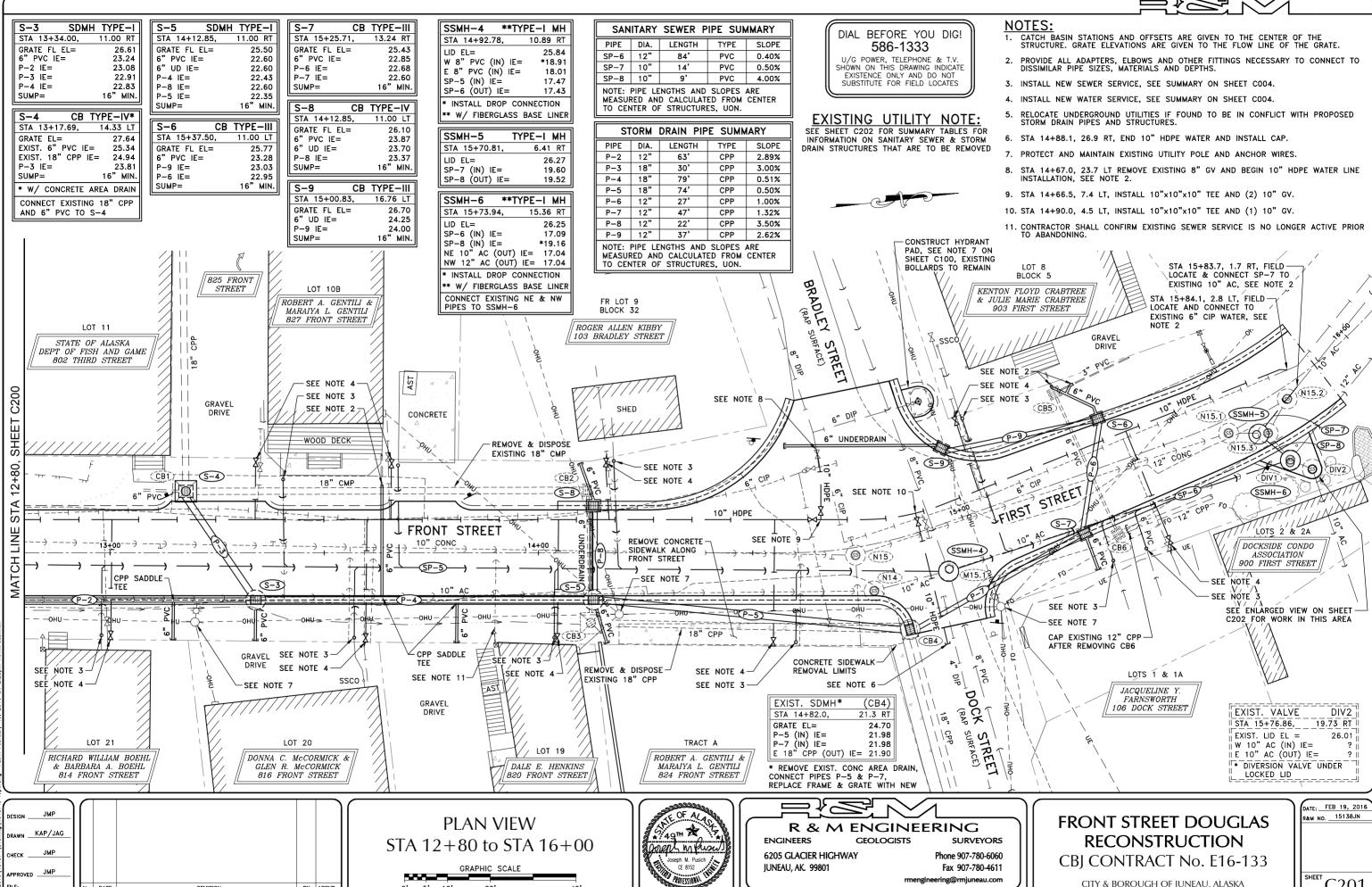
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CITY & BOROUGH OF IUNEAU, ALASKA

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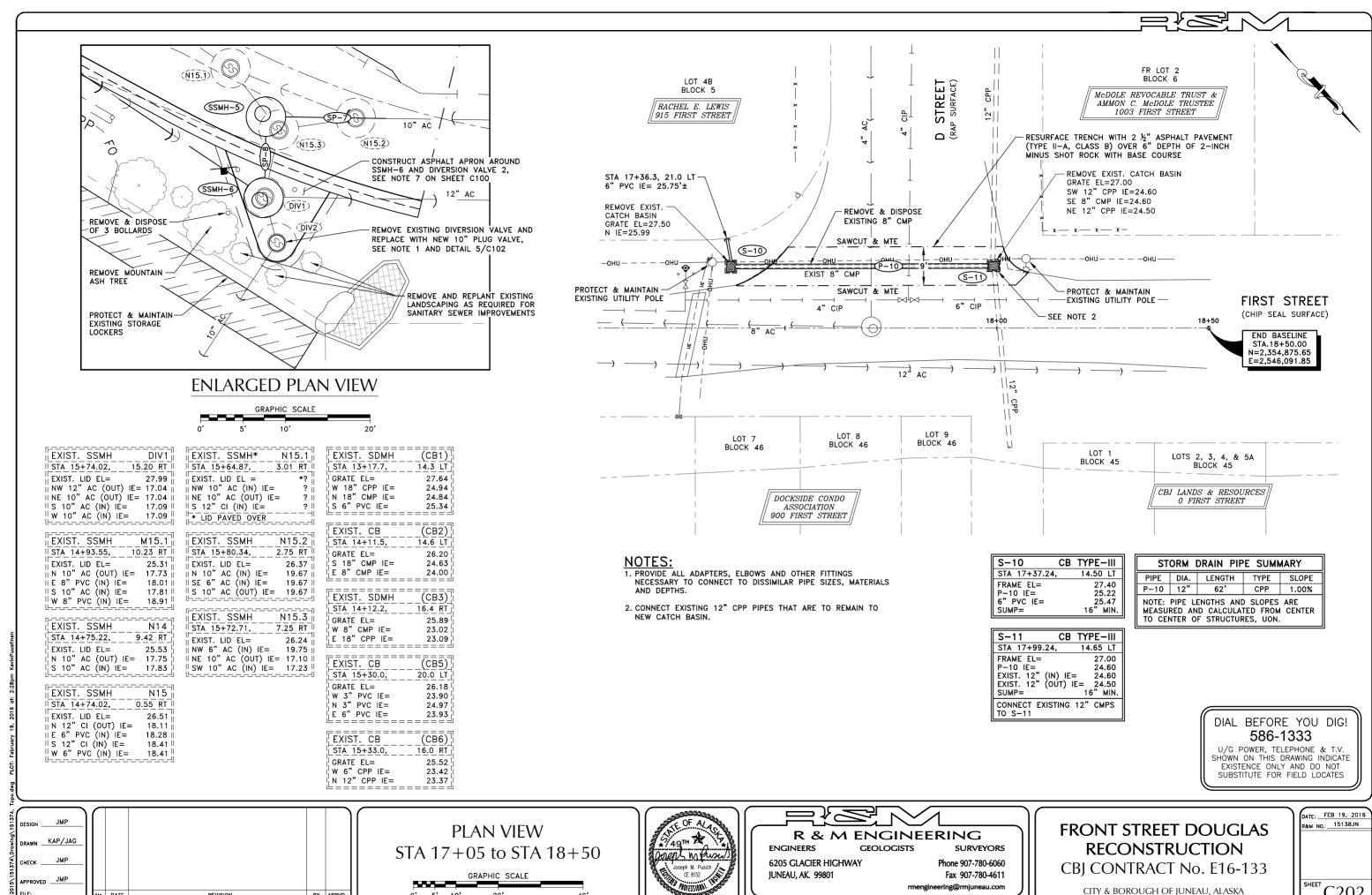


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No. DATE

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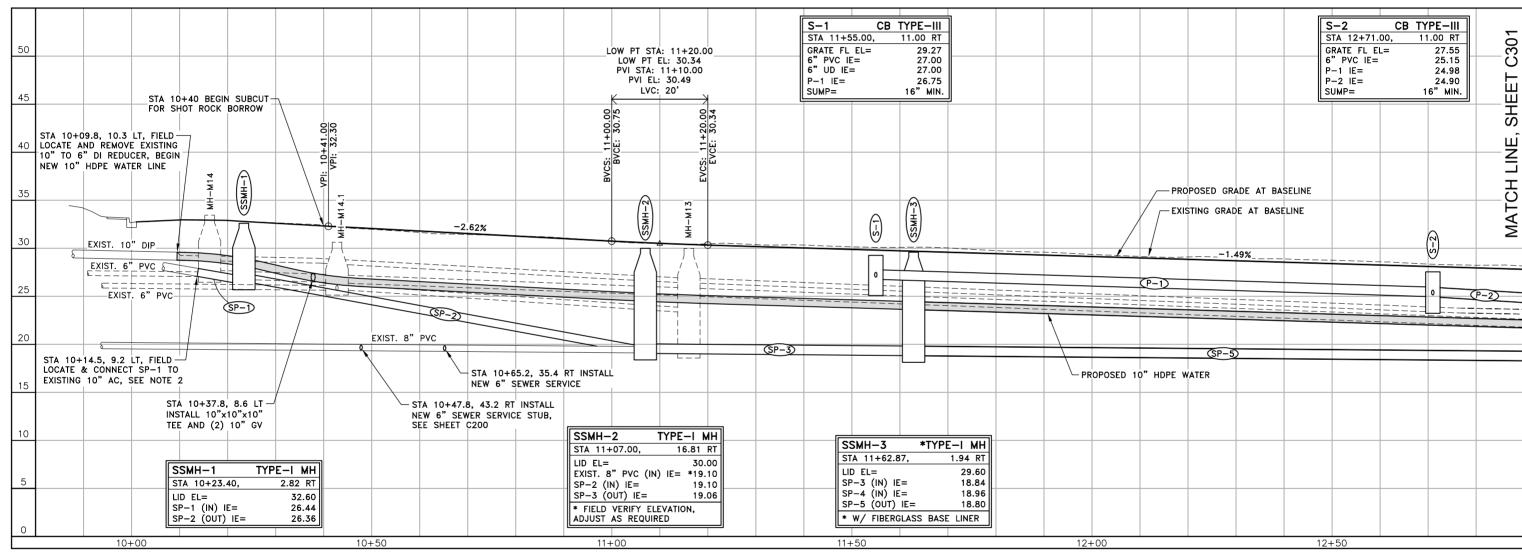
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NOTES:

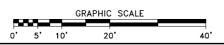
1. WATER SERVICES, SANITARY SEWER SERVICES, ELECTRICAL CONDUITS, UNDERDRAINS AND COMMUNICATION CONDUITS NOT SHOWN FOR CLARITY, SEE PLAN VIEWS FOR APPROXIMATE LOCATIONS.

EXIST. SSMH M15 EXIST. SSMH EXIST. SSMH M14 M14.1 STA 10+16.27, 6.78 LT STA 10+42.79, 31.41 RT EXIST. LID EL= EXIST. LID EL= EXIST. LID EL= 33.46 30.64 29.98 N 6" PVC (OUT) IE= 25.64 N 10" AC (OUT) IE= 19.03 N 10" CONC (OUT) IE=26.86 S 6" PVC (IN) IE 27.06 l E 6" PVC (IN) IE= 25.64 SE 6" PVC (IN) IE= 23.38 SW 10" AC (IN) IE= 27.06 SW 6" PVC (IN) IE= 25.64 S 8" PVC (IN) IE= 19.08





PROFILE VIEW STA 10+00 to STA 12+90





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FRONT STREET DOUGLAS **RECONSTRUCTION**

CBJ CONTRACT No. E16-133

CITY & BOROUGH OF JUNEAU, ALASKA

DATE: FEB 19, 2016 R&M NO. 15138JN



- NOTES:

 1. WATER SERVICES, SANITARY SEWER SERVICES, ELECTRICAL CONDUITS, UNDERDRAINS AND COMMUNICATION CONDUITS NOT SHOWN FOR CLARITY, SEE PLAN VIEWS FOR APPROXIMATE LOCATIONS.
- 2. STA 15+83.7, 1.7 RT, FIELD LOCATE & CONNECT SP-7 TO EXISTING 10" AC SEWER.
- 3. STA 15+84.1, 2.8 LT, FIELD LOCATE AND CONNECT TO EXISTING 6" CIP WATER.

"EXIST. SSMH	N15
STA 14+74.02,	0.55 RT
EXIST. LID EL=	26.51
N 12" CI (OUT) IE=	18.11
E 6" PVC (IN) IE=	18.28
∥S 12" CI (IN) IE=	18.41
W 6" PVC (IN) IE=	18.41

EXIST. LID EL=

EXIST. LID EL=	26.51	EXIST. LID EL=	25.31
N 12" CI (OUT) IE=	18.11 ii	N 10" AC (OUT) IE=	17.73 jj
E 6" PVC (IN) IE=	18.28	E 8" PVC (IN) IE=	18.01
S 12" CI (IN) IE=	18.41	S 10" AC (IN) IE=	17.81
W 6" PVC (IN) IE=	18.41	W 8" PVC (IN) IE=	18.91
		<u> </u>	
FEVER SECTION		FEVER COLUMN	
EXIST. SSMH	N14	EXIST. SSMH*	N15.1
STA 14+75.22, 9.	.42 RT	USTA 15+64.87, 3	.01 RT ∥

EXIST. LID EL =

|| NW 10" AC (IN) IE= INE 10" AC (OUT) IE= || S 12" CI (IN) IE=

* LID PAVED OVER

25.53

EXIST. SSMH

|| STA 14+93.55,

26.42

M15.1	EXIST. SSMH	N15.2
10.23 RT	STA 15+80.34,	2.75 RT
25.31	EXIST. LID EL=	26.37
= 17.73 ii	N 10" AC (IN) IE=	19.67
18.01	II SE 6" AC (IN) IE=	19.67
17.81 Ⅱ	S 10" AC (OUT) IE=	19.67
18.91	ممضمصمط	

5 10 X0 (001) 12-	
EXIST. SSMH N	15.3
STA 15+72.71, 7.2	25 RT
EXIST. LID EL=	26.24
NW 6" AC (IN) IE=	19.75 ∥
	17.10
SW 10" AC (IN) IE=	17.23

EXIST. SSMH	DIV1
	.20 RT
EXIST. LID EL=	27.99
NW 12" AC (OUT) IE= NE 10" AC (OUT) IE=	
S 10" AC (IN) IE=	17.09
W 10" AC (IN) IE=	17.09
F2::::::::::::::::::::::::::::::::::::	
W 10" AC (IN) IE=	17.09 DIV2

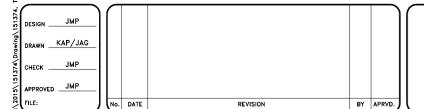
W 10" AC (IN) IE= 17.09	
EXIST. VALVE DIV2 STA 15+81.13, 16.93 RT	

SSMH-4 **TYF	PE-I MH
STA 14+92.78,	10.89 RT
LID EL=	25.84
W 8" PVC (IN) IE=	*18.91
E 8" PVC (IN) IE=	18.01
SP-5 (IN) IE=	17.47
SP-6 (OUT) IE=	17.43
* INSTALL DROP CON	
** W/ FIBERGLASS E	BASE LINER

SSMH-5	TYPE-I MH
STA 15+70.81,	6.41 RT
LID EL=	26.27
SP-7 (IN) IE= SP-8 (OUT) IE=	19.60
SP-8 (OUT) IE=	19.52

SSMH-6 **T	YPE-I MH
STA 15+73.94,	15.36 RT
LID EL=	26.25
SP-6 (IN) IE=	17.09
	*19.16
NE 10" AC (OUT)	
NW 12" AC (OUT)	IE= 17.04
* INSTALL DROP C	ONNECTION
** W/ FIBERGLASS	BASE LINER
CONNECT EXISTING	NE & NW
PIPES TO SSMH-6	;

S-4 CB TYPE-IV* STA 13+17.69, 14.33 LT GRATE EL= 27.64 EXIST. 6" PVC IE= 25.34 EXIST. 6" PVC IE= 25.34 GRATE FL EL= 26.61 6" PVC IE= 23.24 EXIST. 6" PVC IE= 25.34 EXIST. 6" PVC IE= 25.				
EXIST. 18° CPP IE= 24.94 P-2 IE= 25.08 P-3 IE= 22.91 P-3 IE= 22.91 P-4 IF= 22.83	LOW PT STA: 14+12.85 LOW PT EL: 26.05	GRAT	15+00.83, 16.76 LT TE FL EL= 26.70 UD IE= 24.25 9 IE= 24.00 MP= 16" MIN. LOW PT STA: 15+ LOW PT EL: 26.	.03 HIGH PI EL: 26.58
* W/ CONCRETE AREA DRAIN CONNECT EXISTING 18" CPP AND 6" PVC TO S-4	BNCS: 14+12.00 PVI EL: 26:00 LVC: 15' BNCS: 4+ 26:00 LVC: 15' EVCE: 5-20:00 EVCE: 5-20:00	PVI SIA: 14+30.00 PVI EL: 26.45 LVC: 10' 00.53-2 EVC: 10' 00.54-4-7 EVC: 10' EVC: 1	1 0 0 0	PVI EL: 26.62 LVC: 10' 00'5'9 00'5'9 00'5'9 00'5'9 10'0'5'9 40 40 40
: /	PROPOSED GRADE AT BASELINE EXISTING GRADE AT BASELINE (C)	H H H H H H H H H H H H H H H H H H H	SSMH-4 H-M(5.1 S-9) S-60 S-60 S-60 S-60 S-60 S-60 S-60 S-60	SSMH-6 SSMH-6 STA 15+ EL=26,
(P-2) (D-3)	P-4	P-5	(P-9) (P-6)	SP-7 SEE NOTE 3
PROPOSED 10" HDPE WATER	S-5 SDMH TYPE-I STA 14+12.85, 11.00 RT	STA 14+66.5, 7.4 LT— INSTALL 10"x10"x10" TEE AND (2) 10" GV STA 14+90.0, 4.5 LT,— INSTALL 10"x10"x10"		SEE NOTE 2 EXIST. 10" AC EXIST. 12" AC 10
	GRATE FL EL= 25.50 6" PVC IE= 22.60 6" UD IE= 22.60 P-4 IE= 22.43 P-8 IE= 22.60 P-5 IE= 22.35 SUMP= 16" MIN. S-8 CB TYPE-IV STA 14+12.85, 11.00 LT GRATE FL EL= 26.10 6" PVC IE= 23.87 6" UD IE= 23.70 P-8 IE= 23.37 SUMP= 16" MIN.	TEE AND (1) 10" GV.		5+25.71, 13.24 RT FL EL= 25.43 C IE= 22.85 E= 22.68 E= 22.68 E= 22.60
13+00 13+50	14+00	14+50	15+00	15+50 16+00



PROFILE VIEW STA 12+90 to STA 16+00

GRAPHIC SCALE 0' 5' 10' 20'



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